Title: Integrated Intelligent Inter/Intra Networking Device Inventors: Kannan Vairavan Atty. Docket No.: 22575-05683 Application No.: Unassigned

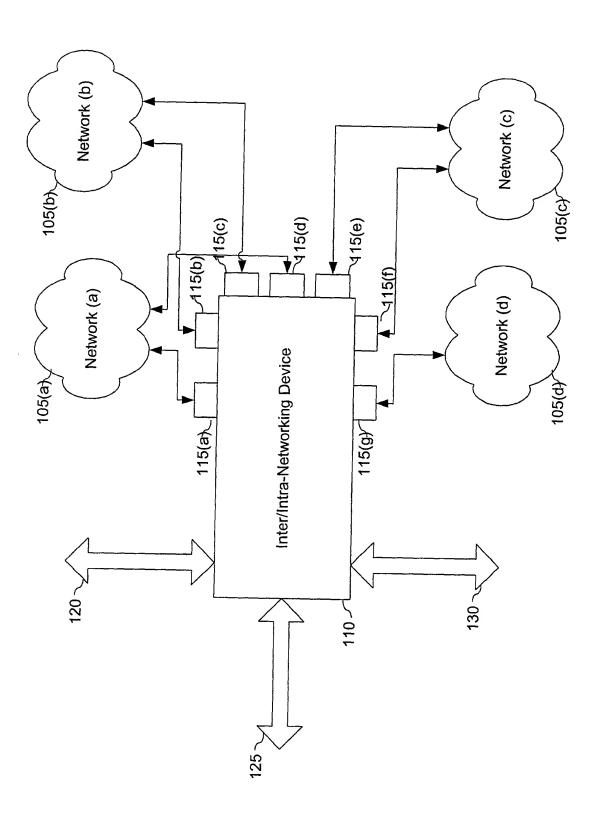
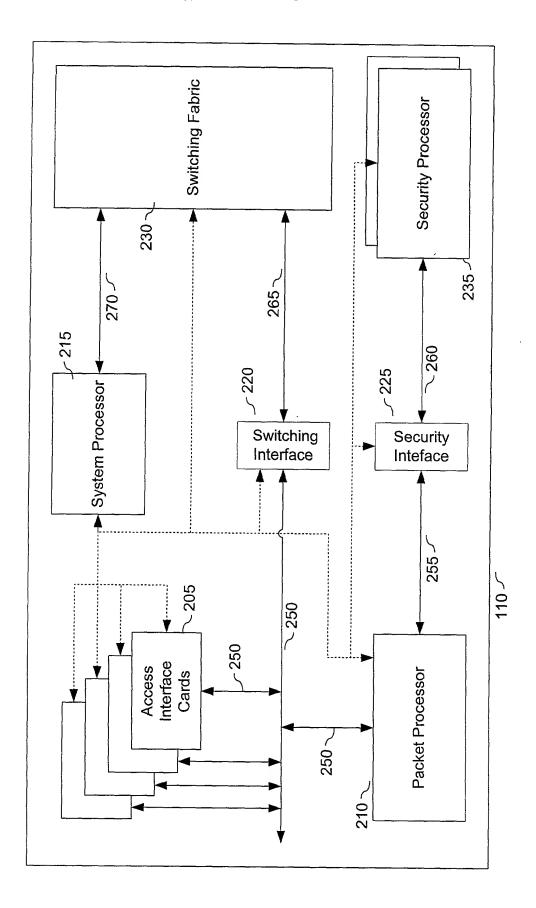


Figure 1

Title: Integrated Intelligent Inter/Intra Networking Device nventors: Kannan Vairavan Atty. Docket No.: 22575-05683 Application No.: Unassigned



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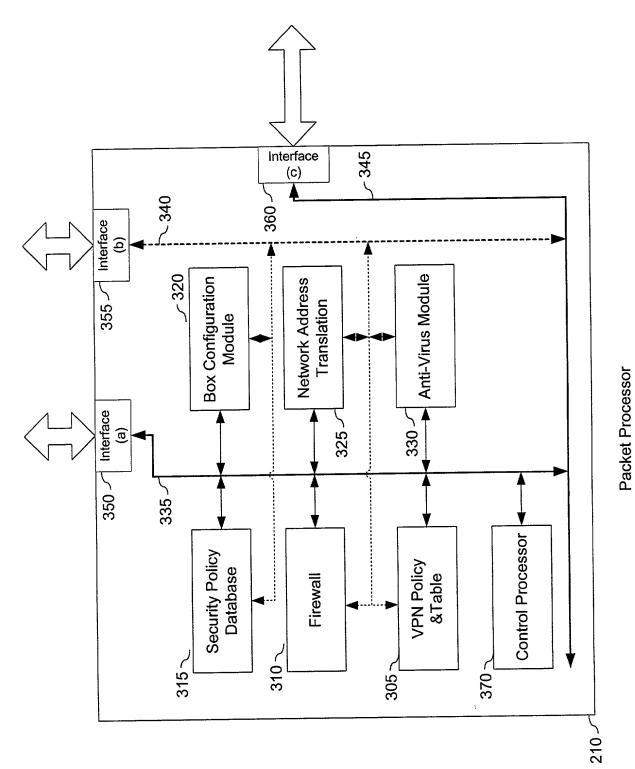
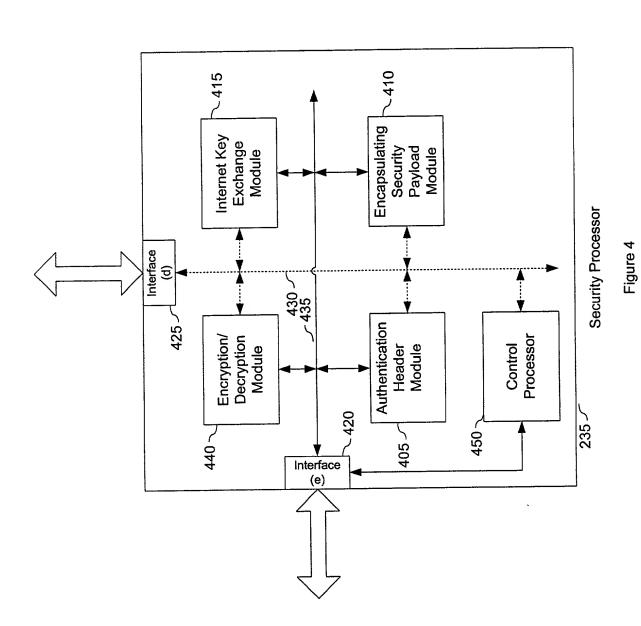


Figure 3

Title: Integrated Intelligent Inter/Intra Networking Device Inventors: Kannan Vairavan Atty. Docket No.: 22575-05683 Application No.: Unassigned



Title: Integrated Intelligent Inter/Intra Networking Device

Inventors: Kannan Vairavan Atty. Docket No.: 22575-05683 Application No.: Unassigned

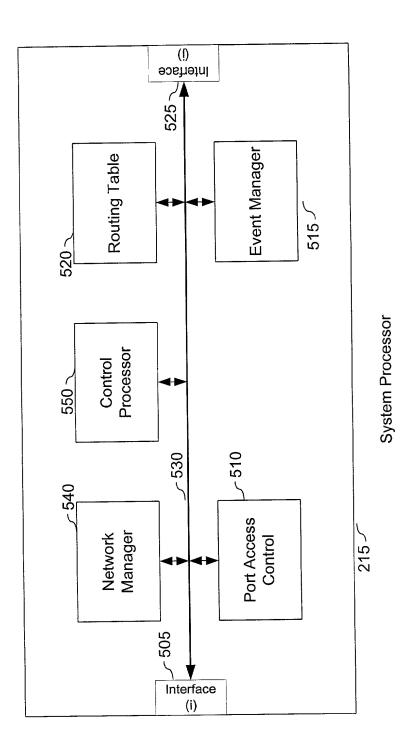


Figure 5

Title: Integrated Intelligent Inter/Intra

Networking Device Inventors: Kannan Vairavan Atty. Docket No.: 22575-05683 Application No.: Unassigned

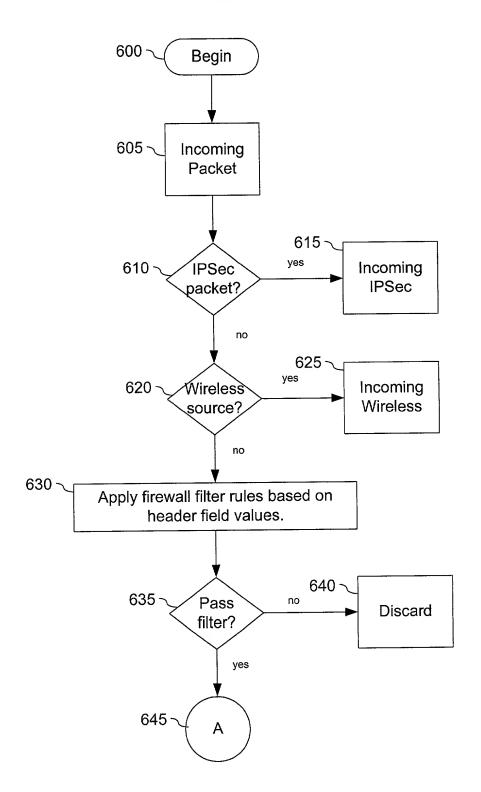


Figure 6A

Inventors: Kannan Vairavan Atty. Docket No.: 22575-05683 Application No.: Unassigned 645 650 -Reassemble fragments, check checksums, and check sequence numbers and the connect state for the stateful packet inspection function for TCP packets. 660 no 655 **Pass** Discard Inspection? yes 665 Collect monitoring data for system management function and screen packet for the Network Intrusion Detection sensor. 670 \ Apply NAT to convert incoming port number to local IP and port value. The DMZ port traffic is exempt from this conversion. 675 ¬ Transmit packet to System Bus to the switch fabric to LAN and DMZ servers. The switch fabric is set up as level 3 switch, and filters between DMZ and LAN ports.

Title: Integrated Intelligent Inter/Intra Networking Device

Figure 6B

Done

680

Title: Integrated Intelligent Inter/Intra Networking Device Inventors: Kannan Vairavan Atty. Docket No.: 22575-05683 Application No.: Unassigned Receive Incoming 815~ **IPSEC Packet** Check if ESP or 700 AH Traffic for an Existing Connection Decrypt the Packet 705 and Determines if there are any **Errors** 715~ ls there an Existing 710 Discard Packet No.**▶** Connection and No Errors? Yes 720 Reassemble packet and apply firewall filter 725 ~ **Collect Monitoring** Data and Perform **Network Intrusion** Sensor Apply Network 730 Address Translation and

Figure 7

Route

Title: Integrated Intelligent Inter/Intra **Networking Device** Inventors: Kannan Vairavan Atty. Docket No.: 22575-05683 Application No.: Unassigned 625 ~ Receive Incoming Wireless Packet 800 -Determine if Packet is Secure Determine if 805 -Packet is Part of an Existing Authorized Connection 815 810 Authorized Discard Packet No-**▶** Connection Yes **Apply Data** 820 -Decompression if Required by **Channel Properties** 825 ~ Apply Firewall Filters and Collect Monitoring Data **Apply Network** 830 ~

Figure 8

Address Translation and Route Title: Integrated Intelligent Inter/Intra Networking Device

Inventors: Kannan Vairavan Atty. Docket No.: 22575-05683 Application No.: Unassigned

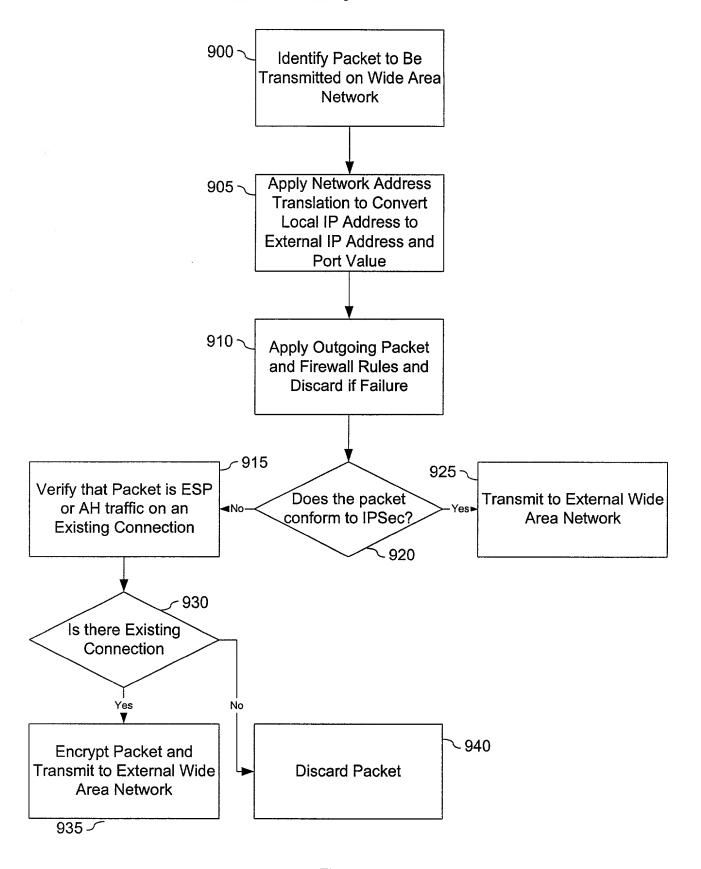
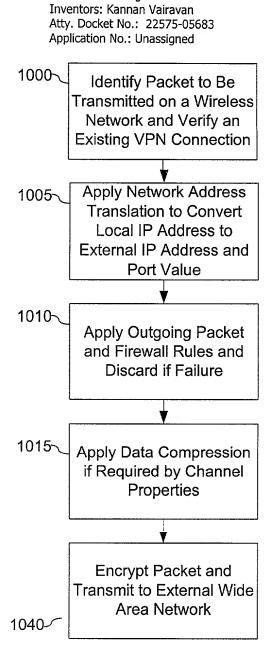


Figure 9



Title: Integrated Intelligent Inter/Intra Networking Device